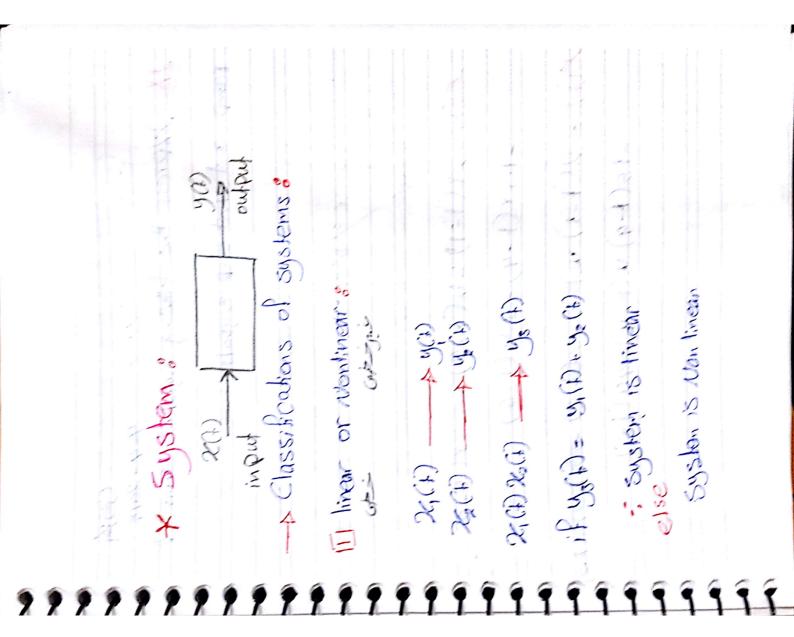
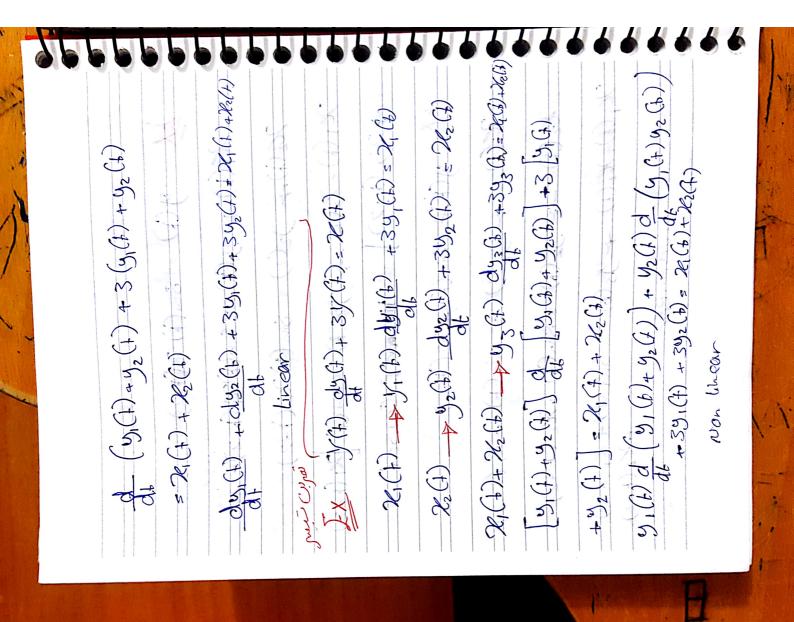


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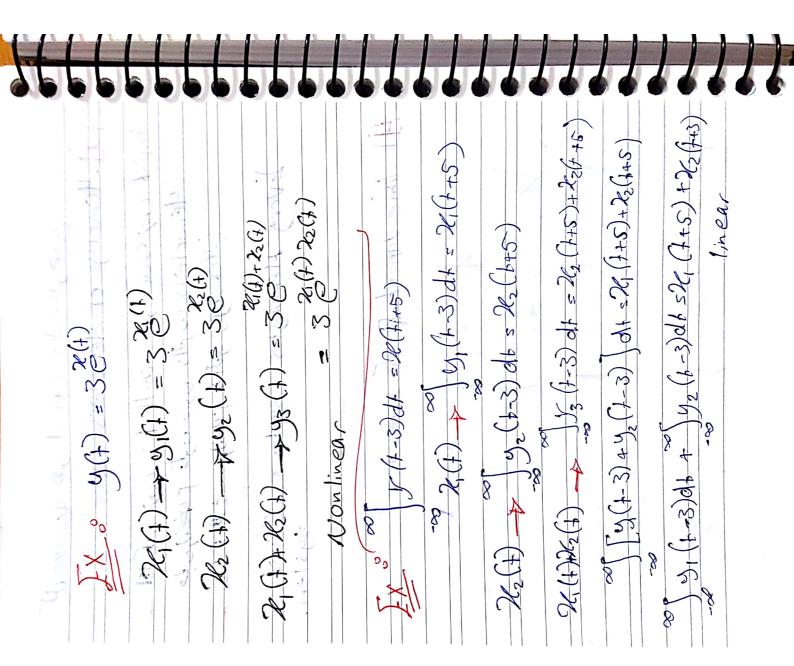


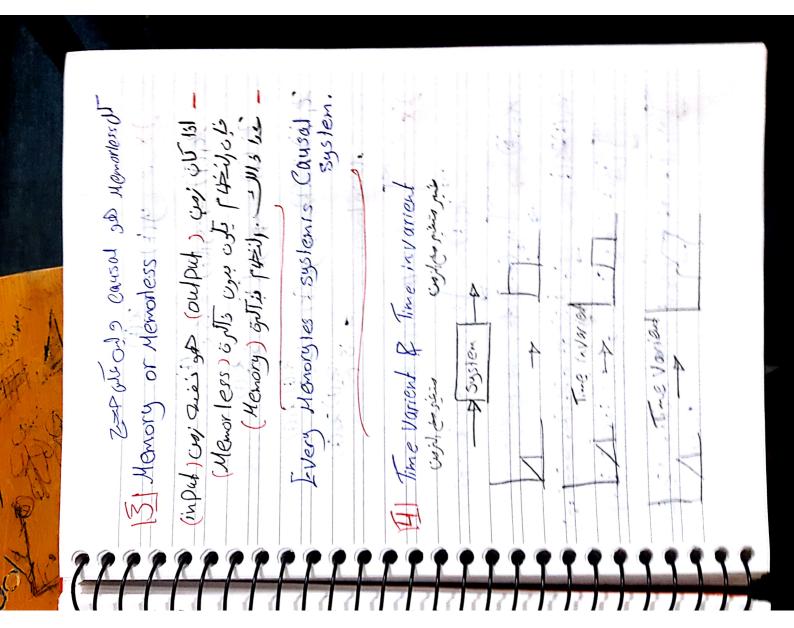
| 2000 | | | | 666 | 4444 | 6666 |
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| | م کنده او بیمرا | 20 65 | | 1 | 4 4 | |
| | 1 300 / pm | رغيس يكن | | | 127 | |
| weat | Sind Jew join (Dud Dud) Specieur , ow (bud ni) | Susput (rbnausal) (sum mis Je of Older | | 2) +5 | $\mathcal{H}_{2}(G) \rightarrow \mathcal{Y}_{2}(G) = 322(1-2)+5$ $\mathcal{H}_{1}(G) + \mathcal{H}_{2}(G) \xrightarrow{950} S \left[\mathcal{H}_{2}(G) + \mathcal{H}_{2}(G)\right]$ | |
| or Man Causa | though the | pul. | y(t)=32(t=2)+5 2(4) y3()+5 | 1)elay(2) | $\mathcal{H}_{2}(G) \rightarrow \mathcal{Y}_{2}(F) = 3\mathcal{X}_{2}(F-2)+5$ $\mathcal{X}_{1}(F) + \mathcal{X}_{2}(F) \stackrel{35(F)}{\longrightarrow} S \left[\mathcal{X}(G) + \mathcal{X}_{2}(F)\right]$ | -2) +5 |
| | و نف ک | Output (Abricausal) | 326 | ×(t) = | (t) 2 | 3 20 (b-2) 4 3 22 (b-2) |
| Causal | 6) (10) Cassal | Outpu | (+) 6 | 4 | (1) ** | (J-2)4 |
| 12 | (in pu | output 1 | \{\lambda | $\chi(0)$ | 246 | 3% |

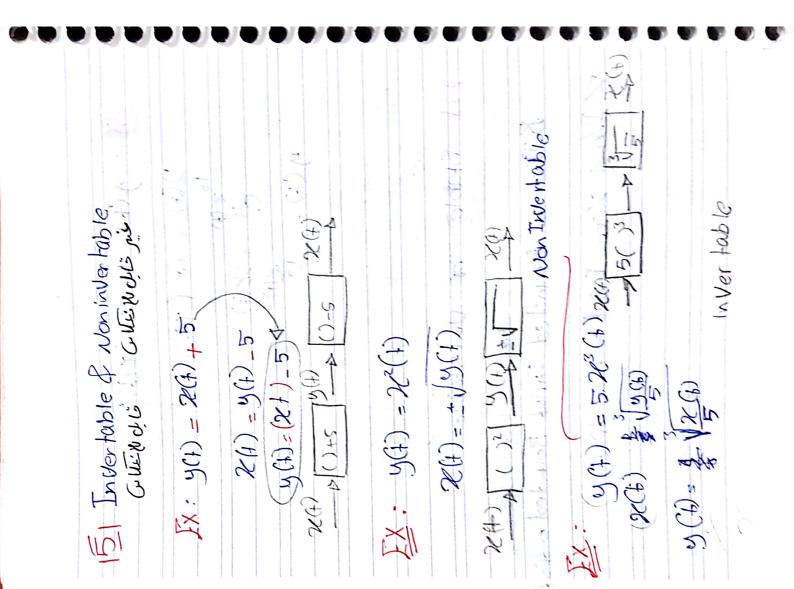
| $9_{1}(4)_{+}y_{2}(4) = 32(4-2) + 32(1-2) + 10$ | 93,(4) # 9,(4) + y2 (4) | -> y(0)=32(-2)+5 > y(1)=32(-1)+5 | 4 - 4 y(-1) = 32 (-3) + 5 Coused system. | 30 | (4) + 00 (4) + 59, (5) = 22, (1). | 24(4) + 22(4) -> dy3(4) +3y (4) = 24(6) + 26) |
|---|-------------------------|-------------------------------------|---|----|-----------------------------------|---|
| (y)(1)+y | y, (Systemis | 0=1 | | 30 | $\mathcal{H}_{2}(\mathfrak{b})$ | 1 24(±) + 2 |



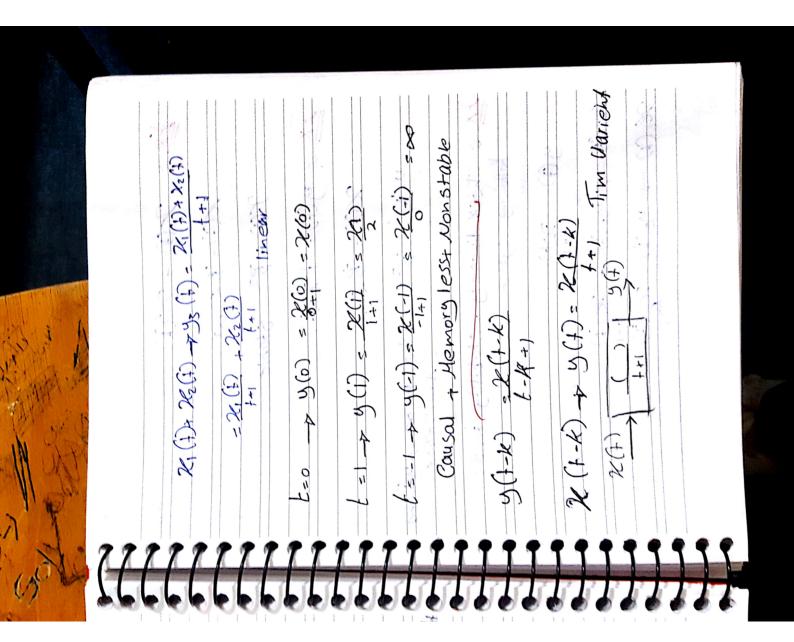
| $ \frac{1}{\lambda} y(t) = S_{11} $ $ \frac{1}{\lambda} y(t) = S_{11} $ $ \frac{1}{\lambda} y(t) = S_{11}(t) $ $\frac{1}{\lambda} y(t) = S_{11}(t) $ |
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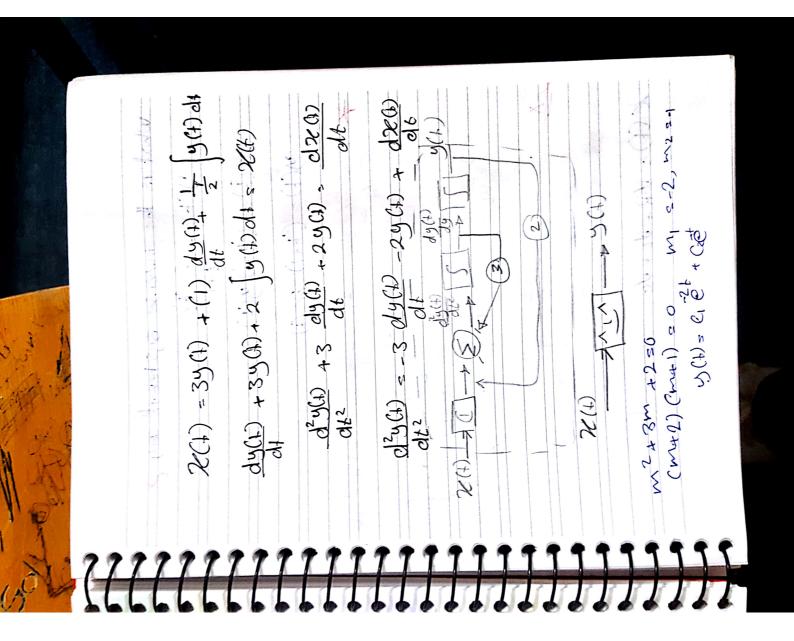


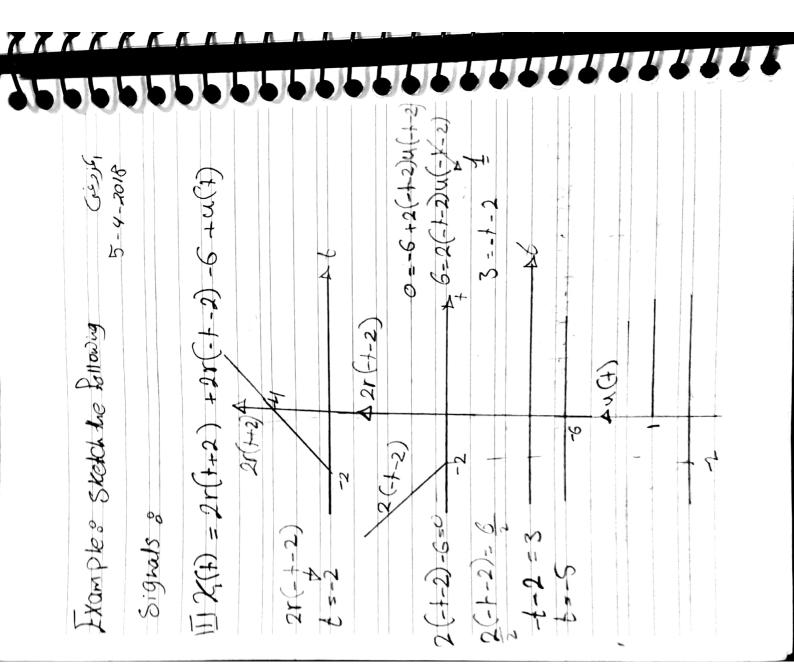


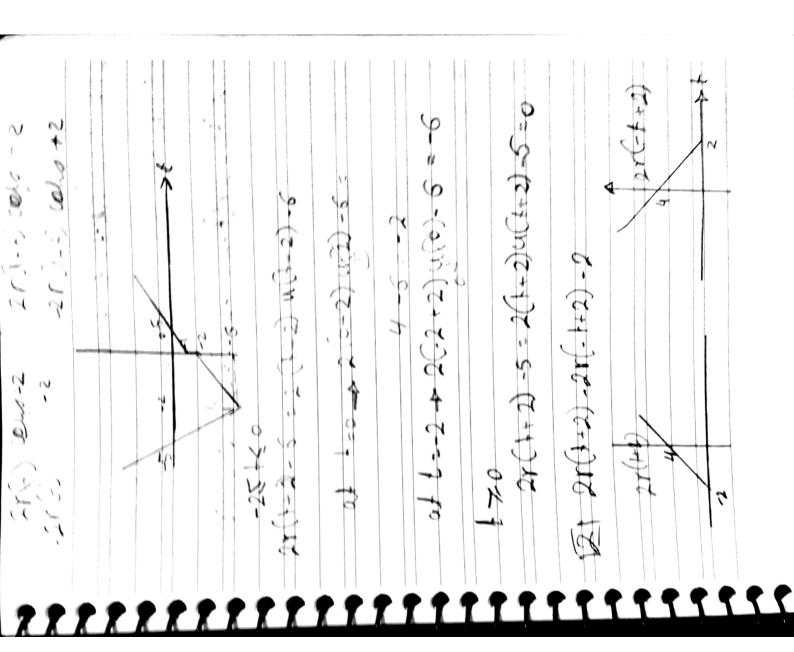
| 466666 | 666 | inhante or + y(b) = 0. Non Stable Stability for the | |
|--|----------------------------|---|---|
| 200 = 2°0) 200 = 32 00 700 = 32 00 | 9(4)= +22(4) (1) 2(4)= (1) | linearity s | 9,(t) = 2,(t) y,(t) = 2,(t) h+1 y,(t) 22,(t) |
| | | y (4) s LX & Check Rellancing | $\frac{y(\mathfrak{f})^{s}}{2\ell_{1}(\mathfrak{f})} \xrightarrow{\gamma} y_{1}(\mathfrak{f})$ $2\ell_{1}(\mathfrak{f}) \xrightarrow{\gamma} y_{1}(\mathfrak{f})$ |

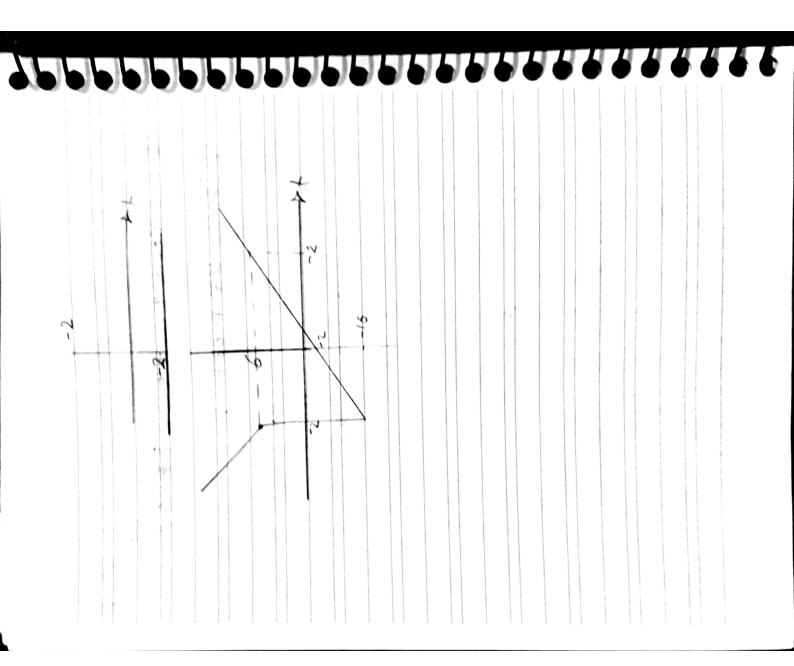


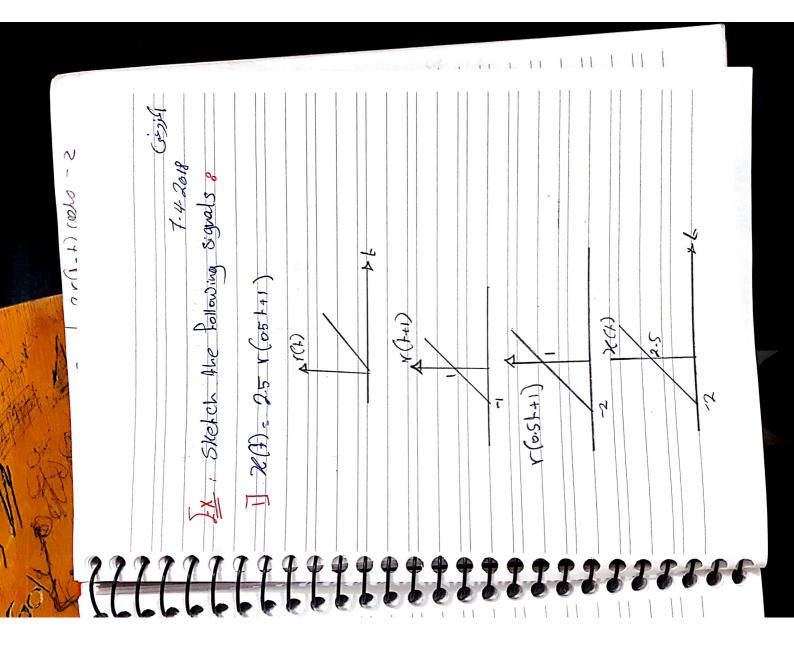
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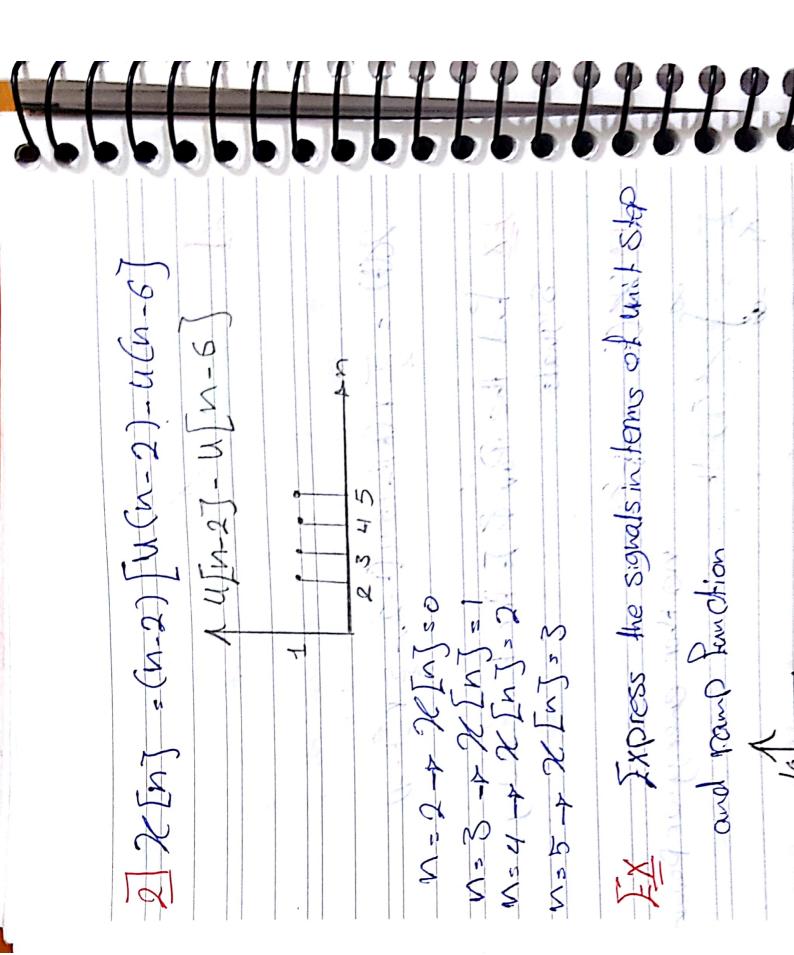


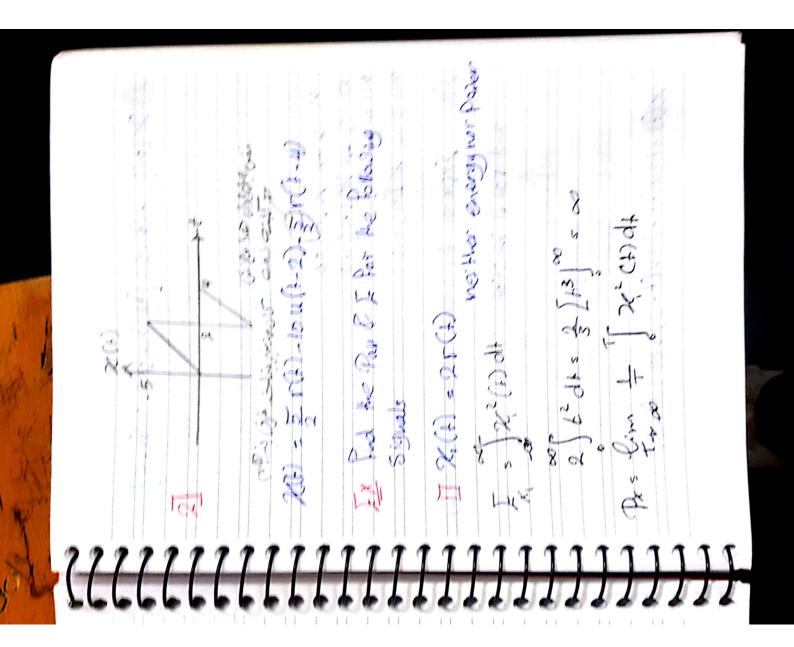


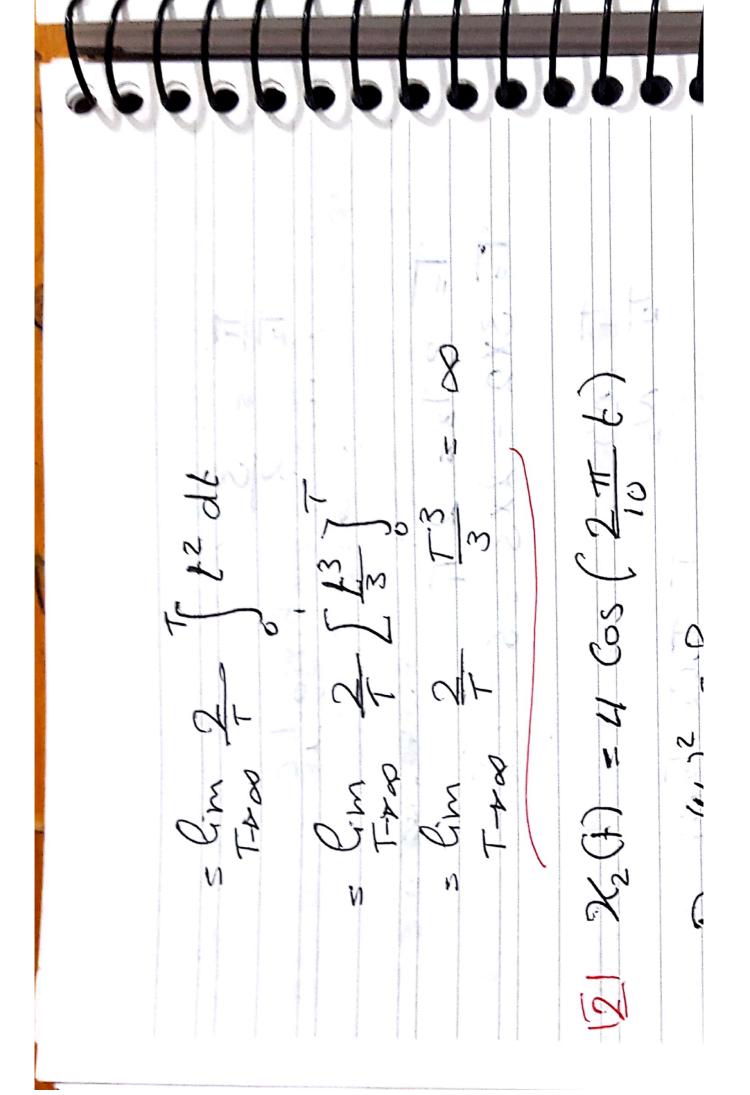






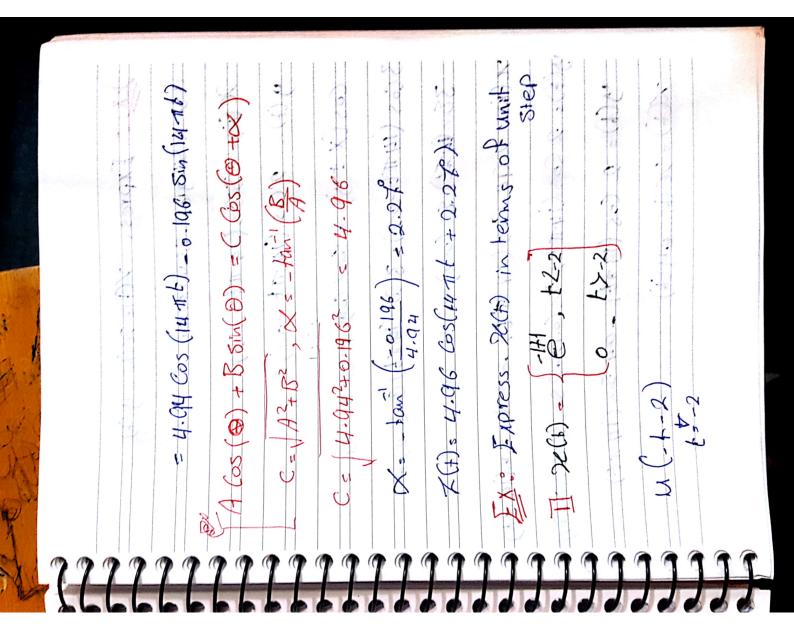




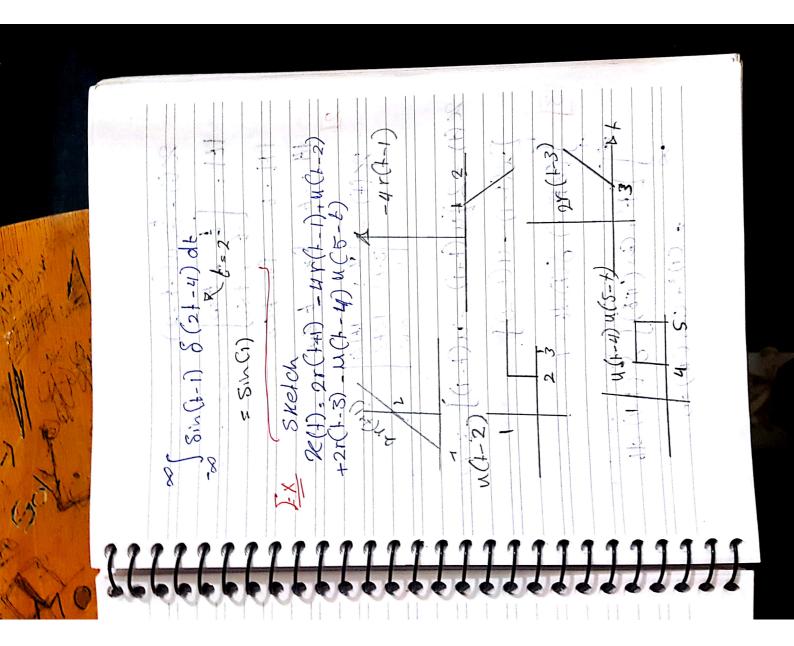


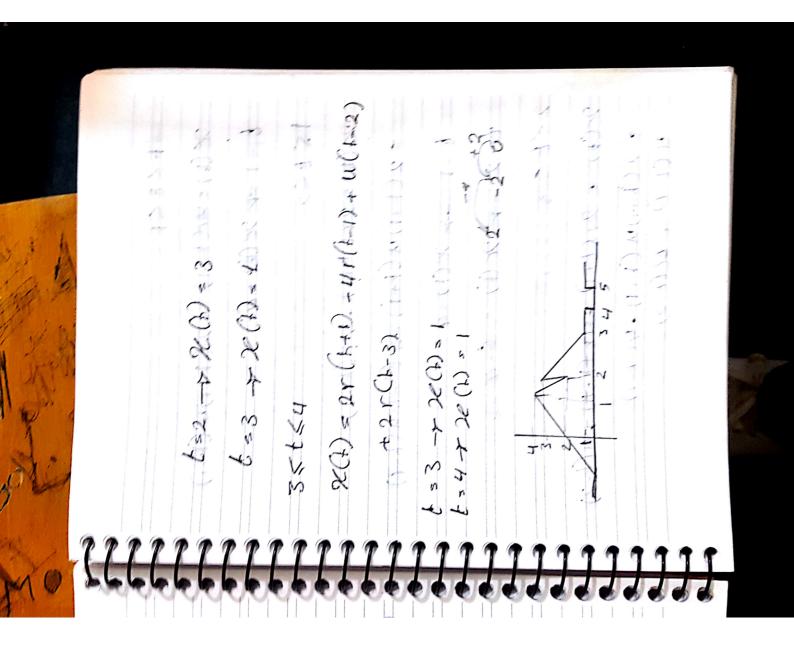
| The s 3 Periodic The s Tes 2 True marporedic The s Tes 2 True The s Sx2 = 2x3 = 6 | To we To The Fact in | Wis 2. A & 2. A Wis 3 & 2. A. | The 2th of Now periodice |
|--|----------------------|-------------------------------|--------------------------|
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2(4), 2.94 Cos (14 # t) +0:546 & M(14 + b) w(F) & Q (cos (14 mt. 1) cos (0.1) -2 S. (14 mt.) Strict) 3 Cas (1446-02) = 3 Cas (1416) Cas(02) = 4(4) = 2 (05 (14 16) - 04 Sh (14 16) COS (X 2 Y) * COSC (COB) # S. W. 80 S. W. 12 : Express x(1) = 4(2) = 4(3) X(F) = 5005 (14 Th -02). y (1) = 2 Ces (14 11 +0.1) 350 (476) Su. (0.2) as a single sausord.



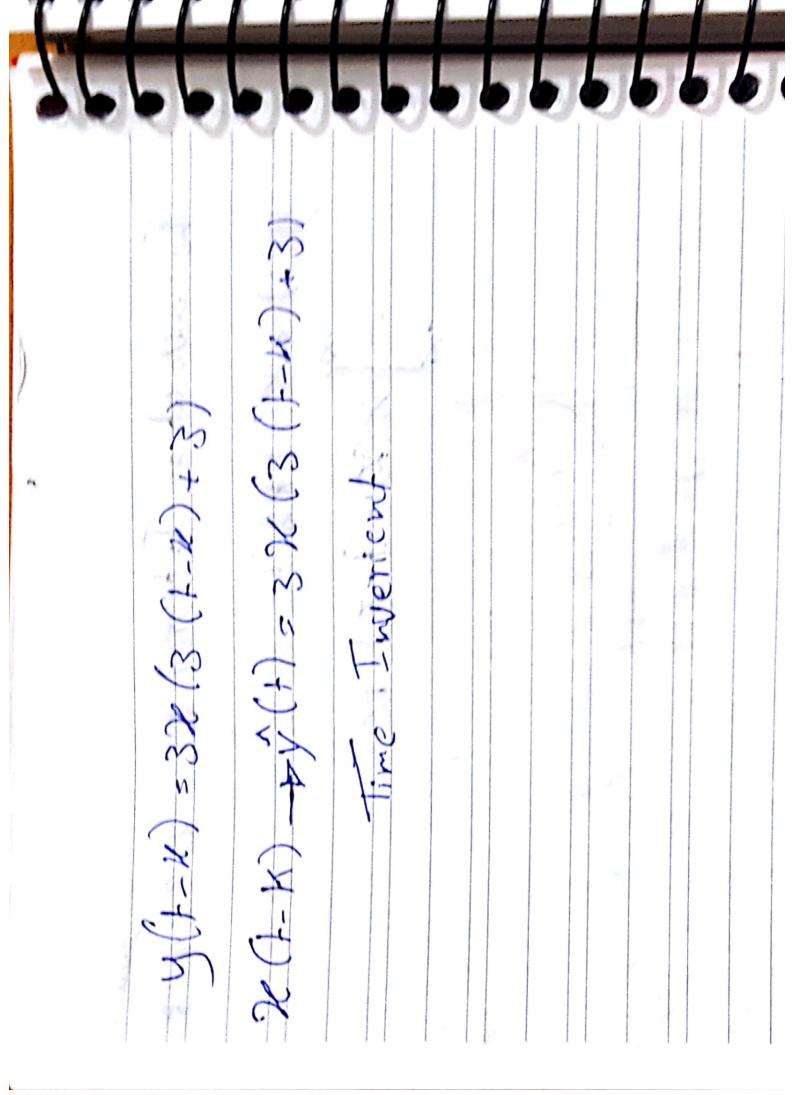
2 (1) = $\begin{bmatrix} L & L^{20} \\ L & L^{20} \\ L & L^{20} \end{bmatrix}$ 14 = $L & L^{20} & L^{20} \\ L^{20} & L^{20} & L^{$

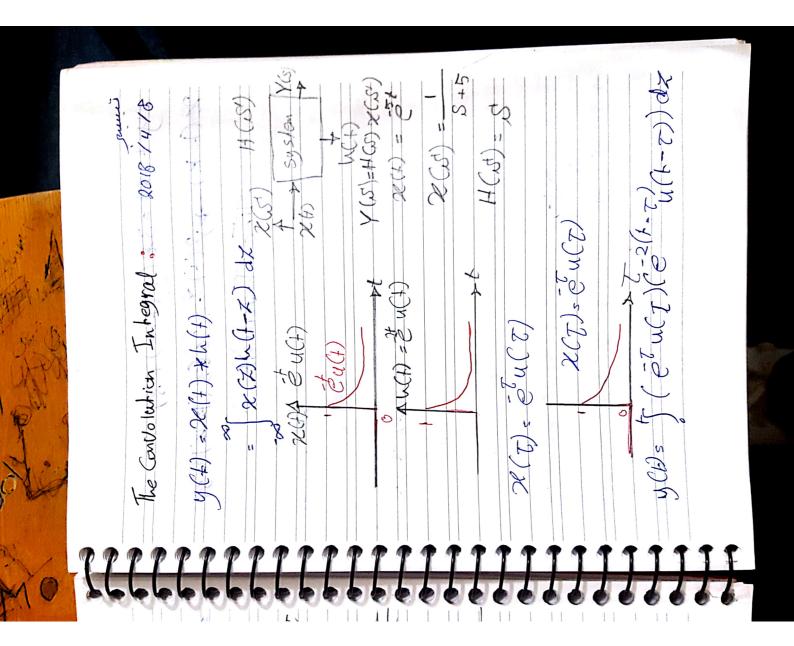


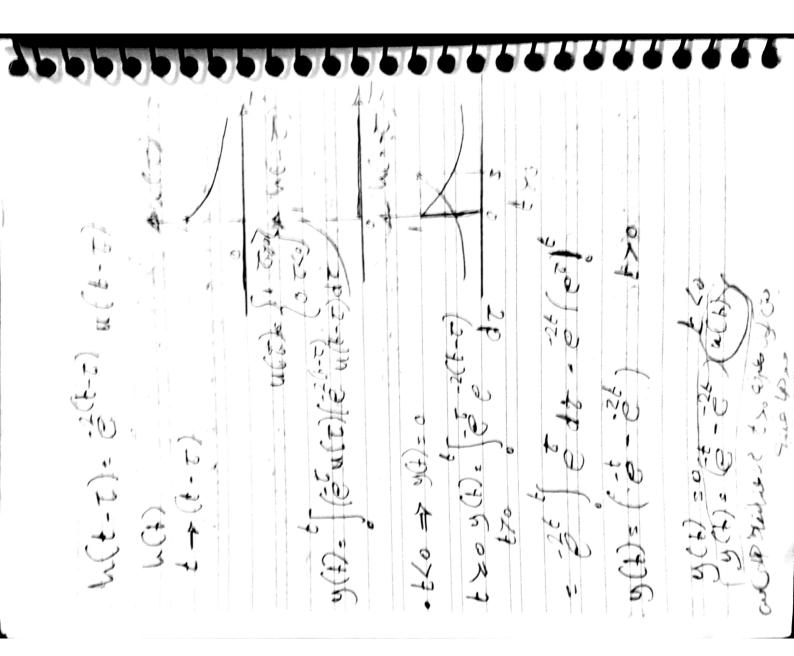


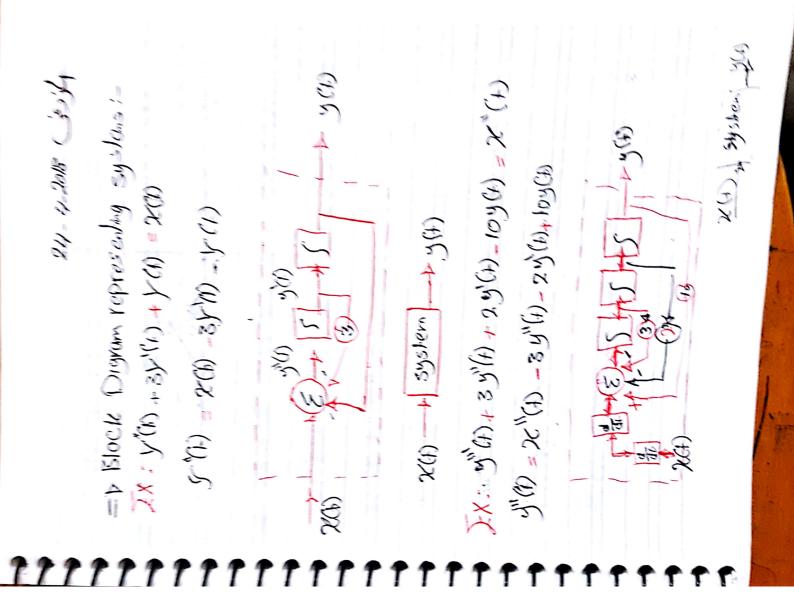
9(4) = \$ Las 9(4) = 6 3 dyt = 8 (4-16+1) -36 Cas 5ta916 2,(4)+2/2(4)+y5(4)= (120,(I)+20,(I) 68 K=1 (QUSAL 1) note that y(+) is depends on Hat $\mathcal{X}_{2}(1) \rightarrow \mathcal{Y}_{2}(1) \cdot \int_{L^{2}} \mathcal{X}_{2}(T) dT$ LX Systems 26, (4) -x 9, (4) = 34, (73 d T 3 p (1) 2 } = (1) 6 Henory linear

| 12 | |
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| Tavarbable | The Court of the C |
| 1 p (2) 2 p (1) of the (1) of 1 | 12 p (2 |
| (1) 2) = (1) 25 = (4) (4) (1) (1) | |
| 46 | |
| I'm C mil | |
| 1 2x y-(h) = 32 (31+3) | 1+3) - (2) |
| linear | N. V. INI |
| 26(H) -r y, (t) = 324 (31+3) | (3++3) |
| 2 (1) - y2 (4) = 326 (3++3) | (31+3) |
| 2, (1) + 2/2 (4) - 33 (4) = 3 [x, (36+3+ | 3 [x, (36+3+ |
| $\left(\frac{3}{2} + \frac{3}{3} \right)$ | Amm Carsal |
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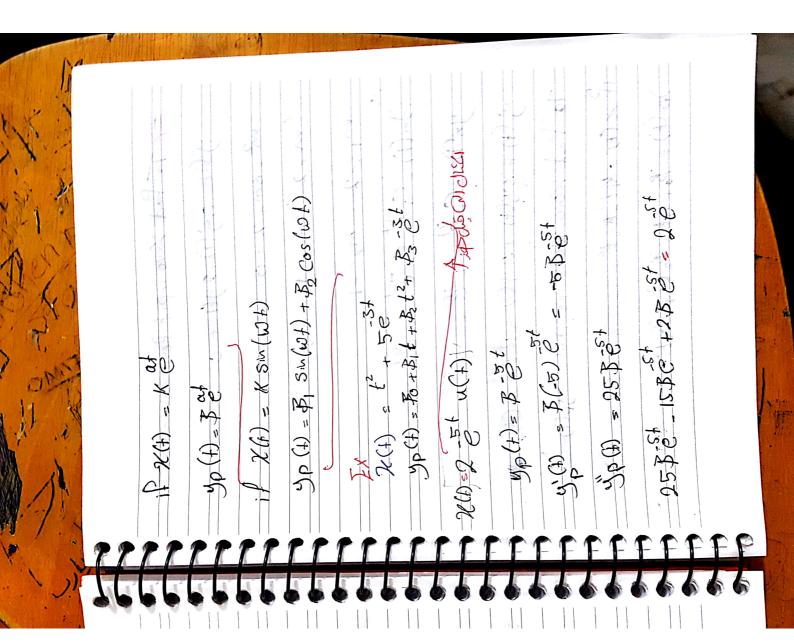




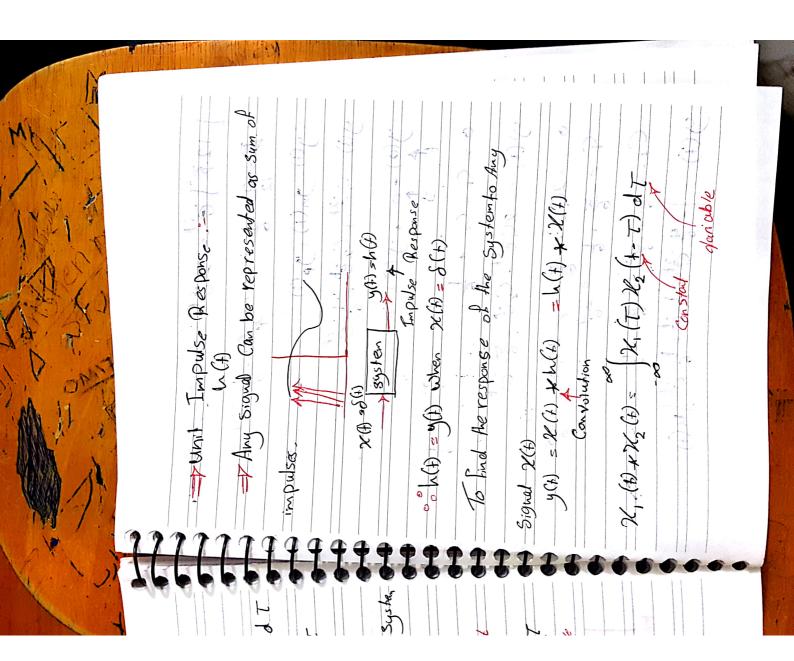
We had appose representation through the many through the second throu

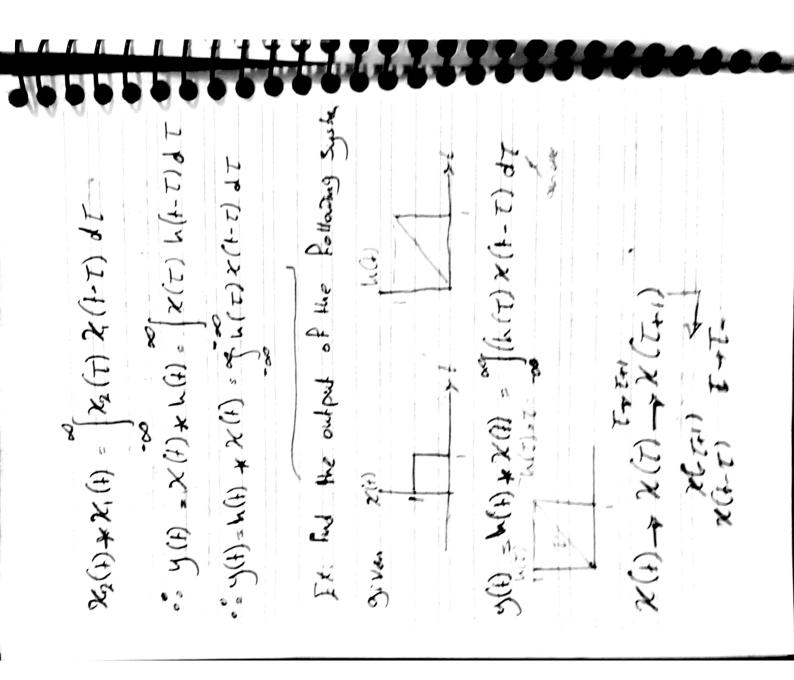
| The state of the s | $\chi(t) = (0 \frac{d^3}{dt}) + (0 \frac{d^3}{dt})$ | 1 cy + (Roy + y = 2Ct) S'(F) + (Roy) + y = 2Ct) S'(F) + (Roy) + y = 2Ct) 1 P 1=114 , C= 1 P , R=3.2 | (y) (f) + 3y(f) + 2y(t) = (2)x(t) [X if x(t) = -5(t) u(t) End the total (Response of y(5) = 0.2) (5) = | Total (Response of Any system = Zero input) (Response yn(+) + Zero stade response yp(+) by(+) = yn(+) + yp(+) | |
|--|---|--|--|---|------|
| | 22221 | HILL | | | 1111 |

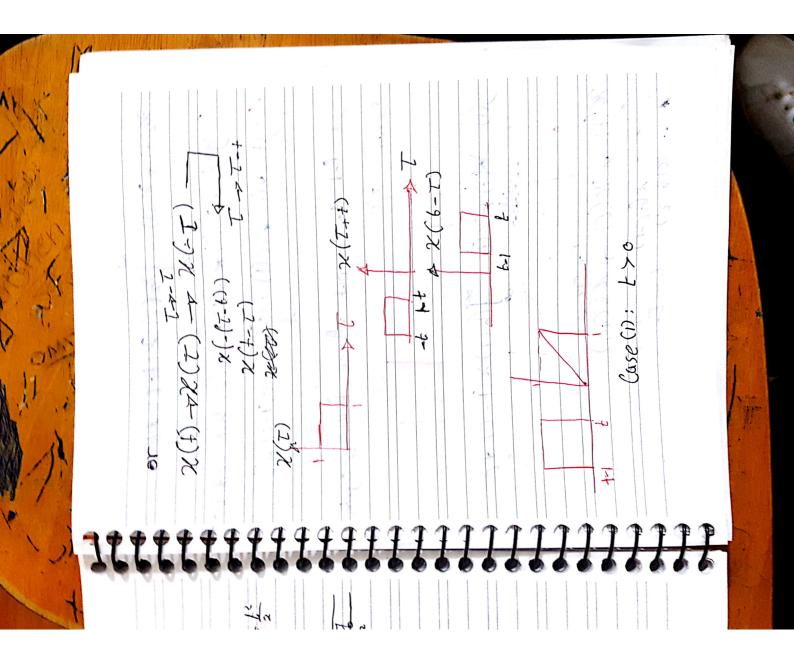
| 71 | 46 | 55 | 6 6 | | | | | | | | |
|----|------------------------------|-----------------------|------------|-------------|--------|--------------|--------------------------|----------------------------------|----------------------|-------------------|--|
| | | | | | | | | E | | | |
| | | # 1 P | | 90 <u>t</u> | | | o u(t) | g . 4p(| 7.7 | M | |
| | To Find Lovo input PRESPONSE | b) = 0 | | 0 % | m3 t | | y"(+)+3y(+)+2y(+)=(1)-5+ | To had Levo state responce yp(+) | - 1 | + 2313 | |
| | ero in pu | y"(+) + 3y'(+)+2y(t)= | 0 = | (m + 1) | M2= 1 | 1 | +246 | Stale | * 4 % | 30(+)= B+ F++ F=+ | |
| | P Pml | +39/ | + 3m+2 | | | yn(1) = (-2) | 34(+) | Keno | 1 X(1) = Kt + Kg t + | B+ 7 | |
| | \$ 100 pt | (t) 1/h | m² + (| (m+2 | m, f 7 | du(f) | ± (‡) € | o pind | $\chi(t)$ | p (+) s | |
| | N I | | | | 3,50 | - . | | 7 | 4 | 5 | |

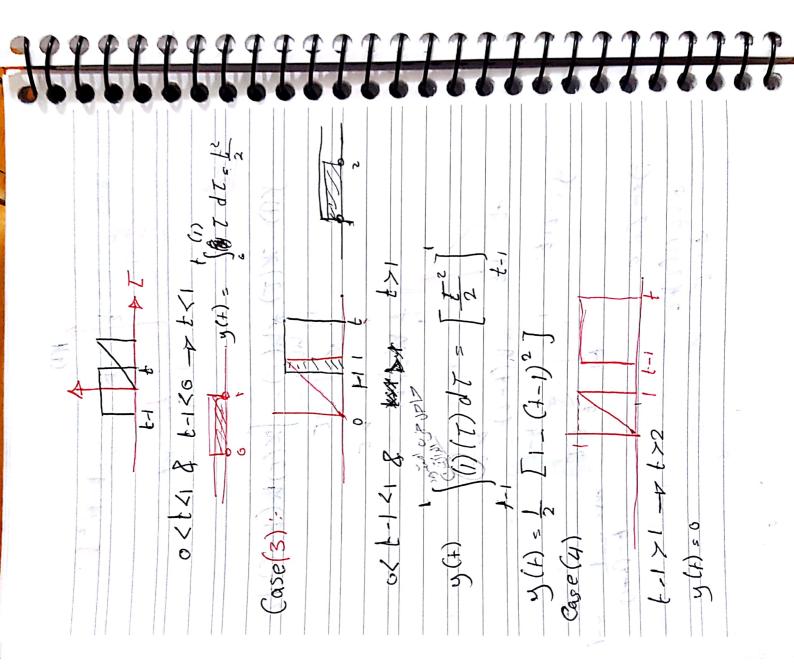


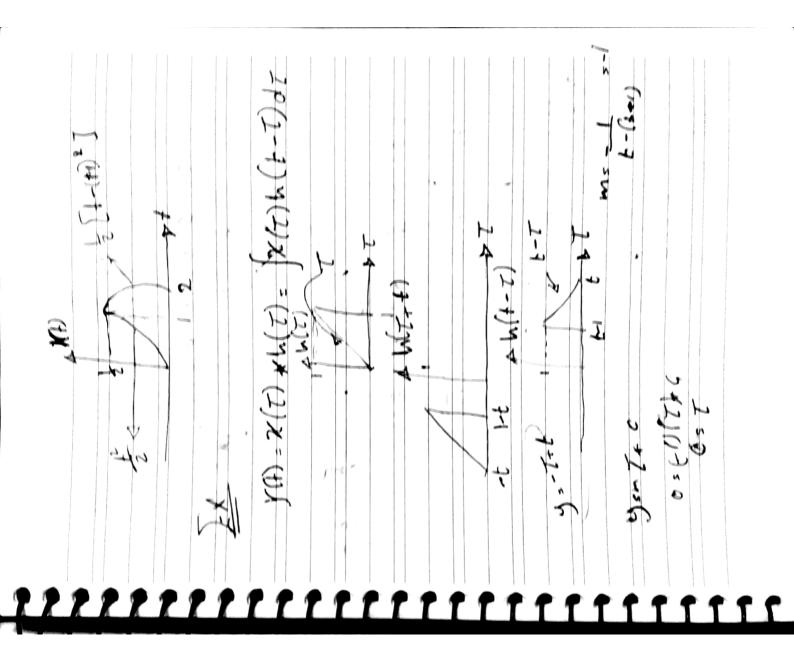
| 7/4 | | | | 5 5 5 | 4884 | |
|-----|---------------------|--|------------|-------|---------|-------------|
| | | | -10 | | | |
| | 1 -5(H) | | | 450 | 46-54 | ist with |
| | 236 1. 4 (4) = 4 | 1500 -10 | 0 | مما | 50 \$ | 40 |
| | N ² | + yo(+) C2 = + | , y(b) 50 | 29-52 | ्रवा | 24 - 24 - 2 |
| | [12\$] ist | $\therefore y(t) = y_n(t) + y_p(t)$ $y(t) = G_{2}^{2} + G_{2}^{2} + \frac{1}{6} = \frac{5}{6}$ | 0 + 50 t | | 2,29,00 | 70 |
| | [12 B | : 4A) | (6) (5) | 15 | 0 0 | |

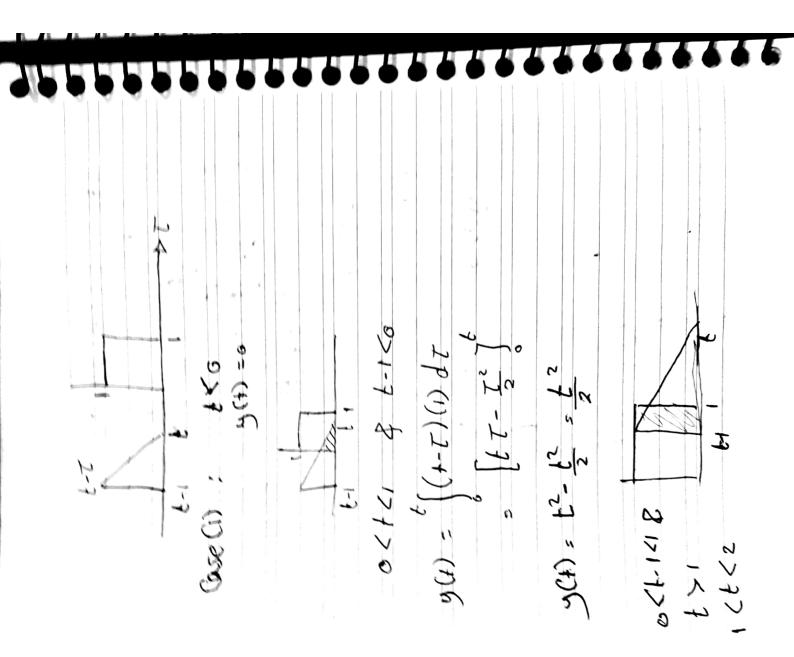


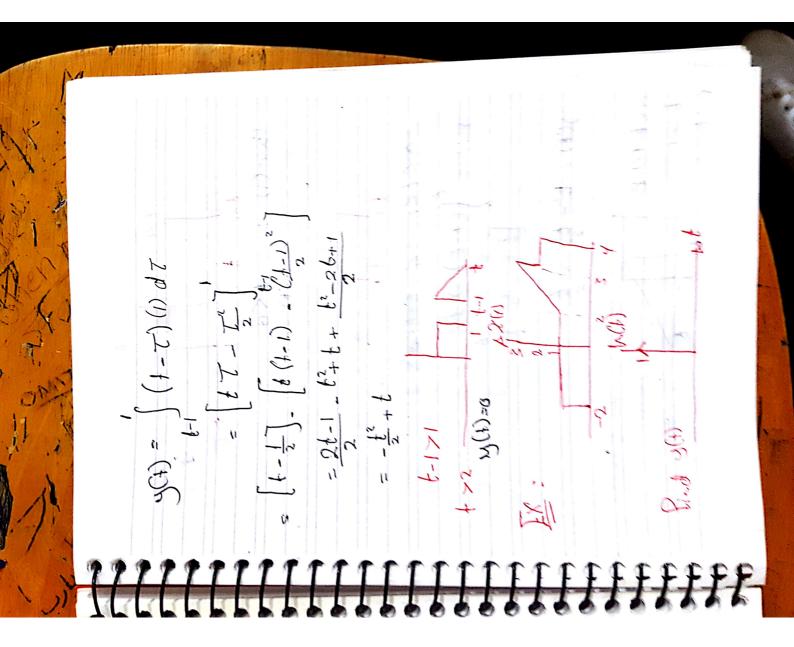


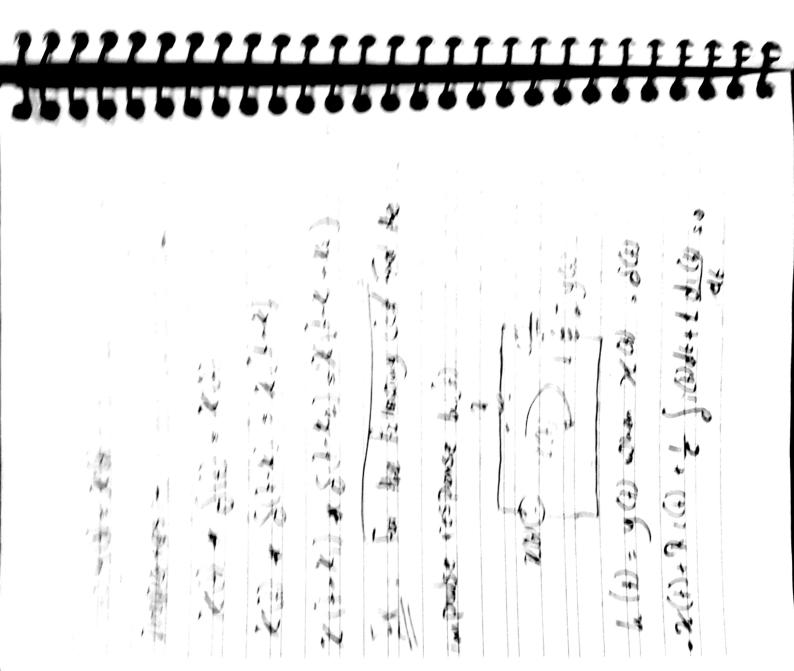




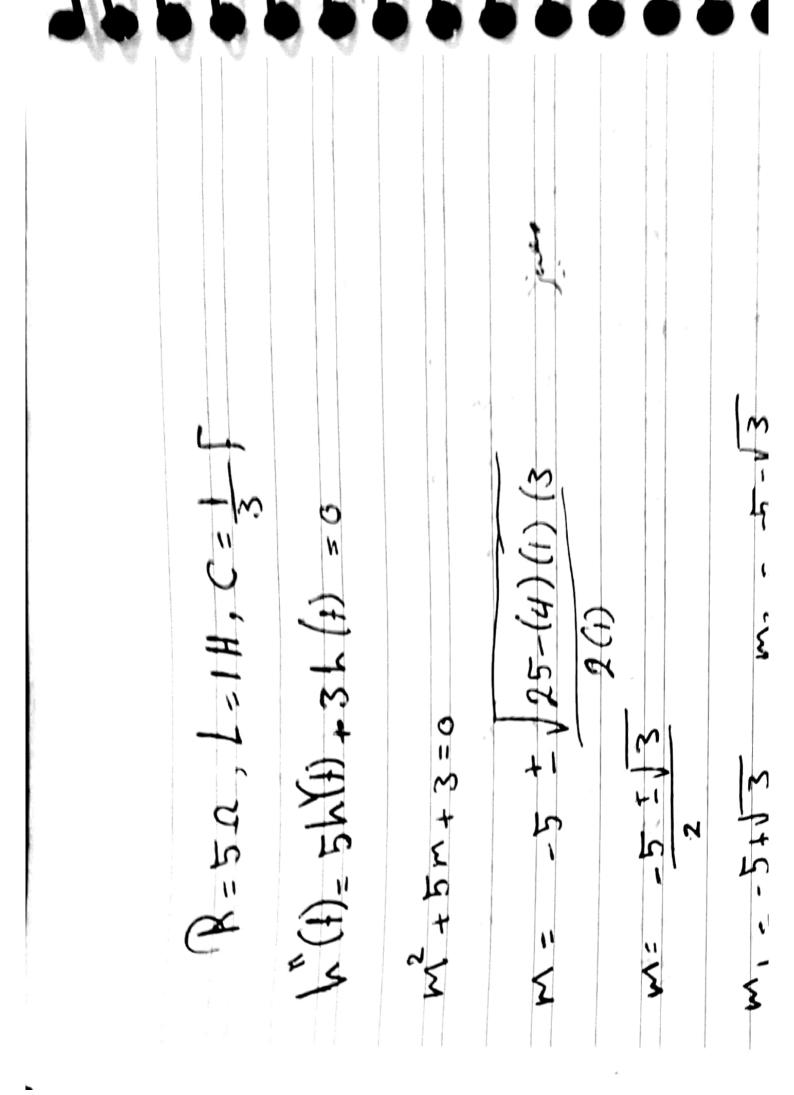








-4(1)-4 [[3(1)46- 2 [4(1)46-20) dt: 10 y(1) - 1 dt & dy(1) & d'x(1) 110 - 1 Jim 4 + Rills 200 4) (4) + B-4(4) + 1-4(3) = -3x"(A) W(1)+ Ph(1) + 1 h(1) = -d. ("(1) + R h'(1) + [h (1) = 0 for Lero input response ..-A (4) 40 4 > x(4)



| | | $\frac{\sqrt{3}}{2}i)t$ t $Opc(\sqrt{3}t)$ | | | | |
|--------------|---------|--|--|---|---------------------|--|
| ms -5 + 13 (| m.t | (= 1 = 1) t (= 1 | | 2 6 - 2(2) + | 3(4) 5 2(4) x w(34) | |
| \$ | - (g) 4 | | | | 3 | |

